

**Universiti Teknologi MARA**

**Traditional Medical Assistance Using  
Forward Chaining Rule-Based System**

**Wan Mohamad Kamil bin Wan Salim**

**Thesis submitted in fulfilment of the requirements  
for Bachelor of Information Technology (Hons.)  
Faculty of Computer and Mathematical Sciences**

**December 2018**

## **STUDENT DECLARATION**

I certify that this thesis and the project to which it refers is the product of my own work and that an idea or quotation from the work of other people, published or otherwise are fully acknowledged in accordance with the standard referring practices of the discipline.

.....

WAN MOHAMAD KAMIL BIN WAN SALIM

2015102661

DECEMBER 2018

## **ABSTRACT**

This project is done to develop a Traditional Medical Assistance Application using Forward Chaining Rule-Based System. Some people want to deal and cure their sickness and mild discomfort on their own and understand fully what they are having based on their symptoms. Many herbs and fruits are good to keep people healthy as they are rich in minerals and nutrients. Unfortunately they are not being exposed to these natural benefits and most people forgot the importance to understand this situation fully and make them afraid of any kind of symptom and decide to take the chemical medicine as an immediate solution which may cause various side effects in the long run. The objective of this project is to develop an application that provides folk remedies suggestion for common illness. The second objective of this project is to evaluate user acceptance testing of traditional medical assistance application. The software used to develop this project was the Android Studio. The method that is used for the developing of this project is Software Development Life Cycle (SDLC). The SDLC method includes the planning, analysis, designing, testing, implementing and development. This project helps user to get the best solution using common traditional remedies to cure their mild discomfort or illness based on their symptoms. Furthermore, a user acceptance test has been conducted on 30 respondents. The result shows that all respondents are satisfied with this application in term of how interesting, valuable and supportive the application is.

**Keyword:** Android, Application, Forward chaining, Traditional, Medical

## TABLE OF CONTENTS

<b>CONTENT</b>	<b>PAGES</b>
<b>SUPERVISOR APPROVAL</b>	<b>i</b>
<b>STUDENT DECLARATION</b>	<b>ii</b>
<b>ACKNOWLEDMENT</b>	<b>iii</b>
<b>ABSTRACT</b>	<b>iv</b>
<b>TABLE OF CONTENTS</b>	<b>v</b>
<b>LIST OF FIGURE</b>	<b>ix</b>
<b>LIST OF TABLE</b>	<b>xi</b>
 <b>CHAPTER ONE : INTRODUCTION</b>	
1.1 Background Study	1
1.2 Problem Statement	2
1.3 Aims and objectives	3
1.4 Scope	4
1.5 Project Significance	5
1.6 Summary	6
 <b>CHAPTER TWO : LITERATURE REVIEW</b>	
2.1 Mobile technology	7
2.1.1 Android platform	8
2.1.2 Mobile Application	9
2.2 Traditional Medical	10

3.5	Implement and development	27
3.5.1	Develop Android Studio Coding	27
3.5.2	Coding enhancement	29
3.6	Testing	29

## **CHAPTER FOUR : CONSTRUCTION**

4.1	Project Construction	32
4.2	Hardware and Software Requirement	32
4.2.1	Hardware	32
4.2.2	Software	33
4.3	Design	33
4.3.1	Flowchart	33
4.3.2	User Interface Design	34
4.4	Application Development	39
4.5	Summary	47

## **CHAPTER FIVE : SYSTEM TESTING**

5.1	Application overview	48
5.2	Testing Scope	48
5.3	Test Environment and Tools	49
5.4	Metrics and graph	51

## **CHAPTER SIX: CONCLUSION AND RECOMMENDATION**

6.1	Project Result	57
6.2	Conclusion	59
6.3	Limitation	61